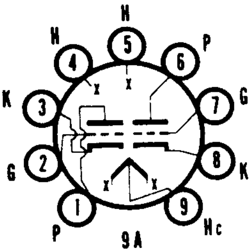


SYLVANIA TYPE 12AE7

DISSIMILAR DUO TRIODE



MECHANICAL DATA

Bulb	T-6½
Base	E9-1, Miniature Button 9-Pin
Outline	6-2
Basing	9A
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage[1]	12.6 Volts
Heater Current	450 Ma

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

	Section No. 1[2]	Section No. 2
Grid to Plate	3.9	3.4 μμf
Input: g to (h+k)	4.7	4.2 μμf
Output: p to (h+k)	0.75	0.85 μμf

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier	Section No. 1[2]	Section No. 2
Plate Voltage	12.6	12.6 Volts
Grid Voltage[3]		
Grid Resistor	1.5	1.0 Megohms
Plate Current	1.9	7.5 Ma
Transconductance	4000	6500 μmhos
Amplification Factor	13	6.4
Plate Resistance (Approx.)	3250	985 Ohms

NOTES:

1. This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range of 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Section No. 1 connects to pins 6, 7 and 8. Section No. 2 connects to pins 1, 2 and 3.
3. Average contact potential bias developed across specified grid resistor.

APPLICATION

The Sylvania Type 12AE7 is a miniature double triode with dissimilar sections. It is designed for operation where the heater and plate voltages are supplied directly from an automotive storage battery. Section No. 1 is a medium-mu triode designed for general purpose application. Section No. 2 is a low-mu triode suitable for use as a transistor power amplifier driver.